(Appnt.: Yufa)

GAU 2877

Amnt. contd.

page 4

Appn. No. 08/884,680

20

A

Appn. No. 08/884,680

(Appnt.: Yufa)

GAU 2877

Amnt. contd.

page 5

detecting said particles by a will eless communicating remote detecting system, comprising a wireless communication means and a particle detecting system;

forming in said particle detecting system a data, containing an information about a quantity and/or size of said particles.

conversing said data to a form, which is acceptable for a wireless communication of said wireless communicating remote detecting system with a wireless communicating remote data processing and control system, including a wireless communication means and a microprocessor system;

wireless communicating between said wireless communicating remote detecting system and said wireless communicating remote data processing and control system;

processing of said data by said wireless communicating remote data processing and control system.

- 22. The method of claim 21, wherein said wireless communication means of said wireless communicating remote detecting system and said wireless communication means of said wireless communicating remote data processing and control system provide a two-way wireless communication.
- 23. The method of claim 22, wherein said two-way wireless communication is provided by a transmitting-receiving means of said wireless communication means of said wireless communicating remote detecting system via an aerial means of said wireless communication means of said wireless communicating remote detecting system and by a transmitting-receiving means of said wireless communication means of said wireless communicating remote data processing and control system via an aerial means of said wireless communication means of said wireless communicating remote data processing and control system.
- 24. The method of claim 22, wherein said two-way wireless communication provides:
- a transmitting of a control signals from a wireless communicating remote data processing and control system to a wireless communicating remote detecting system;
- a receiving of said control signals by said wireless communicating remote detecting system;
- a transmitting of a data, containing an information about particle quantity and size, from said wireless communicating remote detecting system to said wireless communicating remote data processing and control system;
- a receiving of said data by said wireless communicating remote data processing and control system.
- 25. An apparatus for particle counting and measuring, including at least one of a plurality of wireless communicating remote detecting systems and at least one of a plurality of wireless communicating remote data processing and control system, which comprises:
- a microprocessor system, including a terminal means, a conversion means of said microprocessor system, a microprocessor means, which are connected to each other by a multiplexed bus;
- a wireless communication means, including a transmitting-receiving means, comprising a transmitting means and a receiving means, and an aerial means connected to said

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Appn. No. 08/884,680

(Appnt.: Yufa)

GAU 2877

Amnt. contd.

page 6

transmitting-receiving means.

26. The apparatus of claim 25, wherein said terminal means includes at least one of a displaying means, a floppy disk means, a compact disk means, a printing means and a control panel connected to each other by said multiplexed bus.

- 27. The apparatus of claim 25 wherein said conversion means of said microprocessor system is connected to a said transmitting-receiving means of said wireless communication means.
- 28. The apparatus of claim 25, wherein said microprocessor system is connected to said wireless communication means.
- 29. The apparatus of claim 25, wherein said multiplexed bus is presented by a data bus and an address bus.
- 30. The apparatus of claim 25, wherein said at least one or each of said plurality of wireless communicating remote detecting systems comprises:

a wireless communication means, including a transmitting-receiving means, comprising a transmitting means and a receiving means, and an aerial means connected to said transmitting-receiving means;

a particle detecting system, including a particle detecting means connected to a signal processing system, which is connected to a conversion system connected to a said transmitting-receiving means of said wireless communication means of said wireless communicating remote detecting system.

- 31. The apparatus of claim 30, wherein said particle detecting means includes a tubular means, coupling a detection means and an environment assaying control means, and wherein said detection means is connected to a detected signal processing means, and wherein said environment assaying control means is connected to a signal processing means and to a control means.
- 32. The apparatus of claim 30, wherein said signal processing system includes a signal processing means connected to a detected signal processing means, to said conversion system and to a control signal conversion means, which is connected to a control means.
- 33. The apparatus of claim 30, wherein said conversion system includes a conversion means connected to a coding-decoding means of said conversion means.
- 34. The apparatus of claim 30, wherein said particle detecting system is connected to said wireless communication means.
- 35. An apparatus for particle counting and measuring, providing a timing processing of a detected signals, containing an information about the particle quantity and size, includes a detected signal processing means and a signal processing means, connected to each other.
- 36. The apparatus of claim 35, wherein said detected signal pròcessing means comprises a

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